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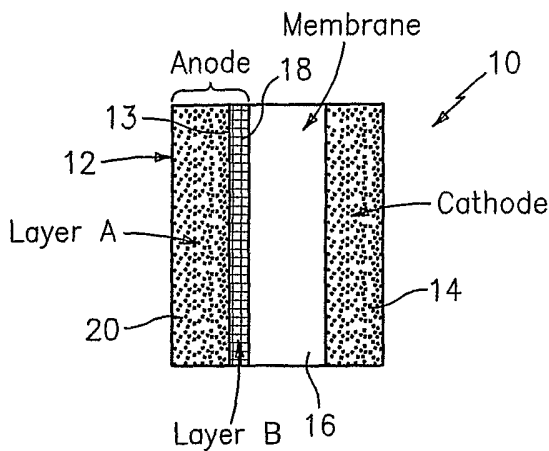
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(54) Title: METHOD FOR PREPARING MEMBRANES AND MEMBRANE ELECTRODE ASSEMBLIES WITH HYDROGEN PEROXIDE DECOMPOSITION CATALYST

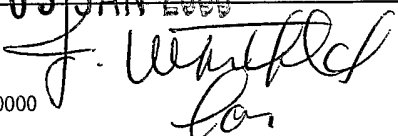


(57) Abstract: A method for making a membrane electrode assembly (10) includes the steps of providing a membrane electrode assembly including an anode (12) including a hydrogen oxidation catalyst; a cathode (14); a membrane (16) disposed between the anode (12) and the cathode (14); and depositing a peroxide decomposition catalyst in at least one position selected from the group consisting of the anode (12), the cathode (14), a layer between the anode (12) and the membrane (16) and a layer between the cathode (14) and the membrane (16) wherein the peroxide decomposition catalyst has selectivity when exposed to hydrogen peroxide toward reactions which form benign products from the hydrogen peroxide. The peroxide decomposition catalyst can also be positioned within the membrane (16). Also disclosed is a power-generating fuel cell system including such a membrane electrode assembly, and a process for operating such a fuel cell system.

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/35010

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC(7) : B05D 5/12 US CL : 427/58, 115 According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) U.S. : 427/58, 115 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 07-024315 A (KYODO KUMIAI RATESUTO[RATEN]) 27 January 1995 (27.01.1995), abstract.	10
X	US 20030059664 A1 (MENJAK et al) 27 March 2003 (27.03.2003), paragraphs 10, 13.	1, 5, 6
-- Y		10
X	US 6,335,112 B1 (ASUKABE et al) 01 January 2002 (01.01.2002), column 3, lines 7-9, 21, 59-67, column 4, lines 1-8, 55-63, column 6, lines 13-30.	1-3, 5, 7, 16-18, 25, 26, 31-40
-- Y		10
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
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# INTERNATIONAL SEARCH REPORT

International application No. . PCT/US04/35010
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## C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 20030008196 A1 (WESSEL et al) 9 January 2003 (09.01.2003), paragraphs 12-15 and 26-32.	1-4, 8, 9, 11-15, 19, 23-29 ----- 21-22